



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,094	04/14/2004	Francois Jouvie	B-5418 621837-6	7157

7590 08/29/2005

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

NGUYEN, HOANG V

ART UNIT PAPER NUMBER

2821

DATE MAILED: 08/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/825,094

Applicant(s)

JOUVIE ET AL.

Examiner

Hoang V. Nguyen

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4,12-14 and 18 is/are rejected.
- 7) ☒ Claim(s) 2,5-11 and 15-17 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/2/04</u> . | 6) <input type="checkbox"/> Other: ____. |

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3, 4, 11, 13, 14 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Ganeshmoorthy et al (US 6,392,599 B1).

Regarding claim 1, Ganeshmoorthy (Figures 1 and 2) discloses a planar antenna assembly supported on a substrate 11, the antenna comprising a monopole element 16; at least one grounded parasitic element 18 located proximate the monopole element, wherein each grounded parasitic element is grounded to a planar ground plane 12 and incorporates a conductive profile shaped so that the separation between the parasitic element and the monopole element varies along the length of the parasitic element.

Regarding claim 3, as applied to claim 1, Figure 2 of Ganeshmoorthy shows two grounded parasitic elements 18 and 19 located on opposite sides of the monopole element 16.

Regarding claim 4, as applied to claim 1, Figure 2 of Ganeshmoorthy shows that each grounded parasitic element includes a foot extending towards a base part of the monopole element which is adjacent the ground plane.

Regarding claim 12, as applied to claim 1, Ganeshmoorthy (col 2, lines 55-56) teaches that the monopole element can be tuned to operate in a frequency band of substantially 880 MHz to 2300 MHz.

Regarding claim 13, as applied to claim 1, Ganeshmoorthy (col 2, lines 55-56) teaches that the monopole element can be tuned to operate in GSM to UMTS bands.

Regarding claim 14, as applied to claim 1, Figure 1 of Ganeshmoorthy shows that the assembly is substantially flat.

Regarding claim 18, as applied to claim 1, Ganeshmoorthy (col 2, lines 44-46) teaches the antenna assembly can be included in a computing or information device.

Allowable Subject Matter

3. Claims 2, 5-11 and 15-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 2, Ganeshmoorthy fails to further teach, among other features, that the grounded parasitic element includes a stepped or angled edge, wherein the profile faces and extends away from the monopole element:

Regarding claims 5 and 7, Ganeshmoorthy fails to further teach, among other features, that the base part of the monopole element is of reduced width compared to the remainder thereof.

Regarding claims 6 and 8, Ganeshmoorthy fails to further teach, among other features, that each grounded element includes a recess in an outer edge thereof.

Regarding claims 9-11, Ganeshmoorthy fails to further teach, among other features, that each conductive profile includes two stepped or angled surfaces extending away from the

Art Unit: 2821

monopole element, with an apex between the two stepped or angled surfaces pointing towards the monopole element.

Regarding claim 15, Ganeshmoorthy fails to further teach, among other features, a stub located between the bottom end of the monopole and the ground plane.

Regarding claims 16 and 17, Ganeshmoorthy fails to further teach, among other features, switching means operable to switch between a plurality of sub-bands within the operating band of the monopole element.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patent 6,184,836 B1 discloses a planar antenna comprising parasitic elements located proximate a monopole element.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoang Nguyen can be reached on (571) 272-1825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2821

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn
8/24/05



HOANG V. NGUYEN
PRIMARY EXAMINER